

Pollution Absorbing Bricks Market is Forecasted to Reach a Value of US \$7.34 Billion by 2029

*The Business Research Company's
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What Is The Expected Cagr For The Pollution Absorbing Bricks Market Through 2025?

The market size of pollution-absorbing bricks has witnessed a robust growth in the past few years. It is anticipated to expand from \$5.22 billion in 2024 to \$5.61 billion in 2025, marking a compound annual growth rate (CAGR) of 7.3%. Factors contributing to the growth during the historic period include increased investment in the construction sector, heightened awareness about environmental sustainability, escalating environmental degradation, government policies and incentives, and surging demand for both residential and

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commercial properties.

In the next few years, the market size for pollution-absorbing bricks is expected to experience significant growth, expanding to \$7.34 billion in 2029 with a compound annual growth rate (CAGR) of 7.0%. This projected growth during the forecast period can be credited to the increased demand for green buildings and sustainable building materials, strict government policies on air pollution, growing interest in smart and sustainable cities, and heightened awareness of environmental issues and concerns about air pollution. Some key trends predicted for the forecast period include the incorporation of advanced materials, the usage of sustainable materials in construction, technological breakthroughs in smart building materials, the infusion of concrete with photocatalytic nanoparticles or porous aggregates, the addition of pollution-

absorbing bricks to existing structures to boost air quality, and the introduction of graphene and titanium dioxide into bricks.

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What Are The Driving Factors Impacting The Pollution Absorbing Bricks Market?

Expectations are high for a surge in the pollution-absorbing bricks market due to increased demand for green buildings. A green building minimizes environmental impact through the efficient use of energy, water and other resources, while also providing a healthy internal environment. This increased demand is driven by the need for energy-efficient solutions that not only minimize operational costs and environmental impact but also promote sustainability. Pollution-absorbing bricks, popular in green building design, are advanced materials that enhance air quality by neutralizing pollutants such as nitrogen oxides and particulate matter. These bricks usually incorporate photocatalytic which, when exposed to sunlight, degrade harmful pollutants into harmless byproducts. For instance, the Green Building Council Australia reported in December 2024 that the country's building industry had surpassed 1000 Green Star-certified projects, doubling certification submissions from 2023. Additionally, over 120 applications were submitted within three months. Hence, the growing demand for green buildings is driving the pollution-absorbing bricks market. Growth in the pollution-absorbing bricks market is also bolstered by an upswing in infrastructure development due to a rising need for sustainable construction solutions. Infrastructure development involves planning, constructing, upgrading and maintaining fundamental systems and physical structures for economic activity, social wellbeing and environmental sustainability. As urbanization increases, so does the demand for infrastructure development due to the need for enhanced transport, energy, housing and public services in populous cities. Pollution-absorbing bricks are increasingly employed in infrastructure development to enhance air quality and promote sustainable construction. These innovative bricks, often infused with photocatalytic materials, are used in roads, pavements, bridges and building facades to neutralize harmful air pollutants through exposure to natural sunlight. For example, the UK-based Carbon Disclosure Project reported in 2023 that buildings and energy efficiency led US sectors with 121 projects worth \$4.7 billion, followed by transport with 88 projects valued at \$12.9 billion, while renewable energy had 61 projects totaling \$696 million. Thus, the growth in infrastructure development is fuelling the surge in the pollution-absorbing bricks market.

Which Players Dominate The Pollution Absorbing Bricks Industry Landscape?

Major players in the Pollution Absorbing Bricks Global Market Report 2025 include:

- CRH Plc
- Cemex S.A.B. de C.V
- Taiheiyo Cement Corporation
- Wienerberger AG.
- ACC Limited
- Boral Limited

- Acme Brick Company
- Exeed Industries LLC.
- General Shale Brick Inc.
- JSW Cement Limited

What Are The Future Trends Of The Pollution Absorbing Bricks Market?

Leading corporations in the pollution-absorbing bricks market are increasingly adopting innovative solutions like carbon-sequestering additives to meet the growing demand for sustainable construction. These additives are state-of-the-art materials embedded in bricks, which are designed to trap and contain carbon dioxide, thereby augmenting the ecological advantages of the pollution-absorbing bricks market and playing a crucial role in achieving carbon reduction targets. To illustrate, in June 2024, Graphyte, a carbon sequestration and removal company based in the US, introduced environmentally friendly LEGO-like Bricks. Constructed from residual materials from the timber and agricultural sectors, these materials are meticulously dried to eradicate microbes and halt decomposition, then compacted into robust blocks. These blocks are then securely coated with a non-permeable, eco-friendly layer to prohibit microbial activities and facilitate below-ground, long-term carbon storage. Additionally, these bricks come with inbuilt sensors for supervision, presenting a cost-effective and energy-saving strategy to reduce emissions and attain climate objectives.

Global Pollution Absorbing Bricks Market Segmentation By Type, Application, And Region

The pollution absorbing bricks market covered in this report is segmented –

- 1) By Product: Standard Pollution Absorbing Bricks, Pavement Bricks, Load-Bearing Bricks, Other Pollution Absorbing Bricks
- 2) By Raw Material: Clay, Concrete, Other Raw Materials
- 3) By Technology: Extruded Pollution Absorbing Bricks, Molded Pollution Absorbing Bricks, Other Technologies
- 4) By Application: Residential Buildings, Commercial Buildings, Industrial Buildings, Infrastructure Projects
- 5) By End User: Construction Companies, Architects And Designers, Individual Homeowners, Government Agencies

Subsegments:

- 1) By Standard Pollution Absorbing Bricks: Clay-Based Pollution Absorbing Bricks, Fly Ash-Based Bricks, Bio-Cemented Bricks, Silicate-Based Bricks
- 2) By Pavement Bricks: Interlocking Pavers, Permeable Pavement Bricks, Hexagonal Pavement Bricks, Modular Eco Pavers
- 3) By Load-Bearing Bricks: High-Strength Concrete Bricks, Reinforced Fly Ash Bricks, Compressed Stabilized Earth Blocks (CSEB), Carbon-Infused Load-Bearing Bricks
- 4) By Other Pollution Absorbing Bricks: Photocatalytic Bricks, Algae-Based Bricks, Recycled Plastic Composite Bricks, Geopolymer Bricks

View the full pollution absorbing bricks market report:

<https://www.thebusinessresearchcompany.com/report/pollution-absorbing-bricks-global-market-report>

Which Region Holds The Largest Market Share In The Pollution Absorbing Bricks Market?

In 2024, Europe dominated the global market for pollution-absorbing bricks. Moreover, for the forecast period, Asia-Pacific is projected to see the most rapid growth. The globally-focused report mentions several regions, including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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